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PHOTO LOG

Photographer: Witness:

#1 Site Overview Tank farm secondary containment. Green tanks in picture hold 30, 000 gallons. Thermal Imagery camera did not detect change top to bottom (43 – 44 degrees). Silver tanks top right contained glycerin but now are empty. Photographer: Zach Gaston #2 Site Overview

Largest 300, 000 gallon tank in secondary containment area appeared to hold approximately five feet of material (thermal imagery and knocking on tank) suggested to be tall oil. Smaller upright tanks, north to south, are 10-15, 000 gallon tanks, according to

older maps. Contents unknown.

Photographer: Zach Gaston



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#3 Site Overview

Two green tanks with contents, sitting in secondary containment. Hose from containment was actively draining water to the southwest side of the property. Drums seen at the top of the photo were mostly full yet unlabeled.

Photographer: Zach Gaston



#4 Site Overview

Metal pieces, tanks on sides, and two white empty mobile home style trailers (right one held lab).

Photographer: Zach Gaston



#5 Site Overview

Two white tanks on their sides are open at the bottom and empty. The three reddish tanks appeared to contain tall oil. The one on the right was actively leaking onto the ground. These tanks were open at the top so likely contain rain water and waste. The small building to the right houses a boiler.

Photographer: Zach Gaston



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#6 Site Overview

Another view of the tanks shown in photo 5, plus tanks in the tank farm secondary containment. Also visible in this photo is equipment and tanks to the north.

Photographer: Zach Gaston



#7 Site Overview

Another view of area to the north of the tank farm.

Photographer: Zach Gaston



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#7 Site Overview

North and northwest view of the north-south warehouse area. The "North Sump" is located due west of the northwest corner of this building, in the blackberries west of the fence and red conex container.

Photographer: Zach Gaston



#8 Treoil Property Entrance

View to the north from outside the entrance gate.



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#9 Tank Farm

The two silver tanks once contained glycerin but are now empty.



#10 East of Tanks

Looking north.



#11 Tank Containment

Three totes within the containment all held unknown contents. The tote to the right of the photo was open at the top, and the contents were solid. Water in secondary containment has the appearance of rainwater, with no observable oil floating on the surface.



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#12 View Inside 50, 000 Gallon Tank	
Poor quality picture (see below).	
	03/06/2017 10:52

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Generator Status: LQG	Facility Address: 4242 Aldergrove Rd., Ferndale WA 98248	Date Report Sent:

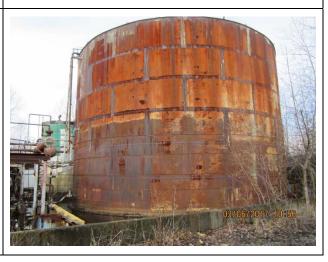
#13 View Inside 50,000 Gallon Tank

Tank east of tank farm appeared to hold tall oil, or oil floating on water. Picture was taken through a hole on the side of the tank approximately eight feet off the ground. Tank also has a horizontal hole near the top (12-24) inches long and 1-2 inches wide where rain water could potentially enter). Liquid within the tank appeared to be 42 inches deep.



#14 Tank Farm

200,000 Gallon Tank which appeared to have contents up to five feet deep (thermal imagery and knocking). Assumed to be tall oil (based on site guide and past reports).



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#15 Northeast of Tank Farm

Documenting grey material on ground, with the appearance of refractory material. Tank is thought to have been one of the incinerators mentioned in past reports, and is open and empty.



#16 North of Tank Farm

This grey tank is just outside the north wall of the tank farm. Appeared to have contents. Rusty upright 2,000 gallon tank just inside the northeast corner of containment appeared to be approximately half full (up to 7-8 feet, noted by knocking on walls).



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#17 Outside of NW Corner of Tank Containment

This tank appeared to have a tank within the tank, elevated a few feet off the ground. The tank appeared (thermal imagery) to be full.



#18 Tanks NW of Tank Containment

These tanks appeared to have contents, though were open at top (visible from above: see photo 6). The tank to the right is actively leaking tall oil from the port.



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#19 Central Pad, Outside West Wall of Tank Containment

Heating oil tank for boiler located inside small building to the left.



#20 Central Pad, West of Tank Containment

Possible asbestos pipe insulation on pad and gravel beneath pipes.



#21 Central Pad, West of Tank Containment

Pipes overhead area of pad impacted by crumbled insulation, shown in photo 20.



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#22 Tank Farm Containment

Hose in containment, actively discharging water to concrete pad below. Hose placed onto scaffold (?) during inspection.



#23 Central Pad West of Tank Containment

Hose shown in photo 22, actively discharging water from containment to pad.



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#24 Pipe Insulation

Close up of more pipe insulation.



#25 Central Pad, Under Partial Roof

The lid on this 55-gallon drum was lifted to observe an orange, oily substance.



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#26 Central Pad, Under Partial Roof

Another drum found under the partial roof contained a blacker oily substance which could have been tall oil.



#27 Central Pad, Under Partial Roof

The lid on this rectangular steel container was remove to observe an oily solution within. The pH of this solution was not determined.



#28 Central Pad, Under Partial Roof

This open plastic drum contained what appeared to be motor oil but could have been tall oil.



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#29 Central Pad, Under Partial Roof

This black poly drum, labeled "Sulfuric Acid," felt nearly empty.



#30 Graveled Area South of Central Pad

These totes contain glycerin scheduled to be removed by Whole Energy Wednesday, March 8 (4 total).



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#31 Graveled Area South of Central Pad

The tote to the left contains glycerin, scheduled for removal March 7. The tote to the right is empty. In the background of this photo is a 20' X 30' warehouse (north-south oriented).



#32 Central Area, SW of Tank Farm

One of two tanks located in the former "biodiesel well" containment area. This tank had a glass gauge along the side which indicated that the contents were separated into two distinct layers, with around 1/3 being a light brown liquid, and 2/3 a very dark oil. Solution drained from the tank's spigot had an unexpected pH of around 3 (tested using pH paper).



#33 East – West Warehouse, North Side

Drums stacked along the north side of the 60' X 100' warehouse were either full or empty (not all were checked). None were labeled.



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#34 Biodiesel Containment, South of Pad

A hose inserted in the containment water was discharging water to the southwest area of the property, in the direction of the south sump (see photo 35).



#35 Southwest Corner, Viewed from Biodiesel Containment

The hose seen in photo 34 was actively discharging water to the area indicated on the photo.



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#36 Central Area, SW of Tank Farm

Liquid from the green tank shown to the right on photo 32 was drained into a container and tested using pH paper. The color indicated that it was in the pH 3 range. The contents of the green tank to the left of this one were also tested and appeared to have a neutral pH in the 6-7 range.



#37 Central Area, SW of Tank Farm



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#38 Central Area, East of North-South Warehouse

Pipe insulation that has fallen from overhead pipes.



#39 Central Area, East of North-South Warehouse

Pipe overhead area of impacted ground shown in photo 38.



#40 View of SW Corner, Fenceline

End of hose shown in photos 34 and 35. The "south sump" is located just north and outside of the fence near the corner of the white trailer seen in the back of this photo.



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#41 SW Corner of Property

North-south warehouse in background; saturated soil just inside SW corner of fence, adjacent to "south sump." Note that this area does not appear to have tall oil on the surface at this time, but has been seen here during past inspections.



#42 West Fence-line

Four 55-gallon drums located south of conex container along west fence-line. One drum was open and empty while three felt full and were closed. None were labeled.



#43 West Fence-line Conex

Conex container surrounded by standing water, with seven 55-gallon drums sitting along the east side and one in front of the container (see also photo 81).



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#44 North – South Warehouse

Chemicals located just inside the entrance to the warehouse. Noted in this area were ferrous sulfate, and other unknown substances. The white powder seen in the blue tub appeared to have a pH of 10 (using pH paper and water found in a bucket that had a pH of 7).



#45 North – South Warehouse

Universal waste lamps upstairs in electrical room.



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#46 North – South Warehouse

Chemicals from former lab located in this building. Visible in this photo are glacial acetic acid and unknown oils.



#47 North – South Warehouse

Visible in this photo are anhydrous sodium sulfate and potassium hydroxide. Other containers were not disturbed for the purpose of reading labels.



#48 North – South Warehouse

More lab chemicals, including "citric acid," potassium hydroxide, and others containers not disturbed to read labels.



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#49 North – South Warehouse

One of two green 55-gallon drums was empty. One was very heavy. Contents unknown.



#50 North - South Warehouse

This five-gallon gallon of butyl alcohol was being used as a door stop.



#51 East - West Warehouse

Bathroom photographed to indicate connection to on-site septic system.



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#52 East – West Warehouse

Looking into an open hole in the lid of one of the "soy sauce" containers shown in photo 53.



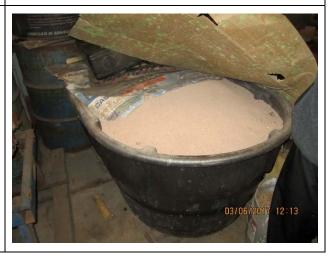
#53 East – West Warehouse

"Soy sauce" buckets with unknown contents. The blue drum seen in this photo is not labeled. Several inches of water visible in floor trench drain.



#54 East – West Warehouse

Sand or sandblast grit. Unknown but present in various forms, in containers and drums.



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#55 East – West Warehouse

This material had the appearance of shiny black rock.



#56 East – West Warehouse

Unknown substance (insulation?) on floor surrounds these drums with unknown contents.



#57 East – West Warehouse

None of the drums in this photo were labeled to indicate contents. Access to this area was limited.



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#58 East – West Warehouse

Sandy and gravelly material within drums could have been used grit, ash from a furnace, or refractory materials.



#59 East – West Warehouse

More drums with unknown contents.



#60 East – West Warehouse

Closed 55-gallon drum labeled "Tricol Medium."



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#61 East – West Warehouse

Numerous bags of titanium dioxide pigment.



#62 East – West Warehouse

Smaller drum labeled "Calcium hypochlorite 65%." Other drums have unknown contents.



#63 East – West Warehouse

View of warehouse from entrance.



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#64 East – West Warehouse

Bathroom noted in warehouse.



#65 East – West Warehouse

Triethanolamine, 5 gallons.



#66 East – West Warehouse

Substance leaking from one or more of the totes stacked in the "empty totes" area. This substance was sticky, like a resin.



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#67 East – West Warehouse

Substance leaking from one or more of the totes stacked in the "empty totes" area. This substance was sticky, like a resin. Room had a rancid odor.



#68 East – West Warehouse

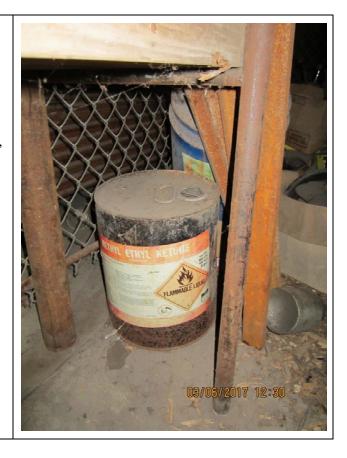
Powdery materials on the floor indicative of spilled material. The contents of these drums is unknown.



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#69 East – West Warehouse

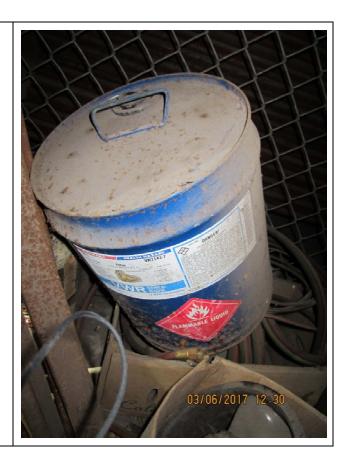
Five gallons of methyl ethyl ketone, found in the caged area alone the north wall of the warehouse. Items were not disturbed to view the blue can container located behind the ether, so its' contents are unknown.



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#70 East – West Warehouse

A five-gallon can of ether, found in the caged area long the north wall of the warehouse.



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#71 East – West Warehouse

A five gallon container of ether and a five-gallon container of toluene found stacked in the open "cage" along the north wall of the warehouse.



#72 East – West Warehouse

Close up picture of ether shown in photo 71.



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#73 East – West Warehouse

Chemicals found in caged area along north wall of warehouse. The "mold release agent" can was also labeled "xylol." The other can's label is illegible in this photo, and not noted during the inspection.



#74 East – West Warehouse

Paint cans and unknowns found in caged area along north wall of warehouse.



#75 East – West Warehouse

Unknown granular substance in open buckets, adjacent to a five-gallon can of toluene.



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#76 East – West Warehouse

Paint cans with unknown contents.



#77 East – West Warehouse

Unknown powdery substance in open bucket.



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#78 East – West Warehouse

Empty and partially full totes and other debris within warehouse. Some of the empty and nearly empty ones (estimated 40) to be removed by Whole Energy Wednesday, March 8.



#79 East – West Warehouse

View from entrance looking north.



#80 East – West Warehouse

Chalk board in warehouse with possible site contact information.



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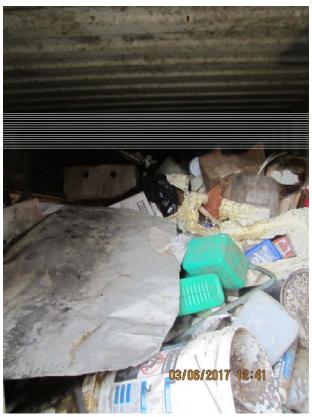
#81 Conex Container – Along Western Fence

Contents unknown, though said to be mostly vegetable fats for biodiesel production in the past (per Mr. Gill).



#82 Conex Container – Along Western Fence

Debris and containers within the conex.



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#83 Conex Container – Along Western Fence

Drums with unknown (vegetable fats?) content, and debris, within conex container.



#84 North-South Warehouse

View from north looking south. The NW corner of the building is the location of one of the open pits, or drains, now not draining and full of oily water and debris.



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#85 North of North-South Warehouse

View to the east.



#86 North of Industrial Plant

Glycerin in lab trailer.



#87 North of Industrial Plant

Five of seven tanks lying on their sides, north of the industrial plant. These tanks appeared to have contents (knocking). The vegetation around these tanks was notably different from surrounding vegetation.



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#88 North of Industrial Plant

Unknown substance on ground (rosin?).



#89 North of Industrial Plant

This tank (not one of the 7) appeared to be leaking or has leaked in the past.



#90 North of Industrial Plant

Another view of tank shown in photo 89.



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#91 North of Industrial Plant

End of tank shown in photos 89 and 90. Note that the port is plugged with wood, and contents appear to have leaked onto the ground.



#92 North of Industrial Plant

Hardened rosin on the ground.

